



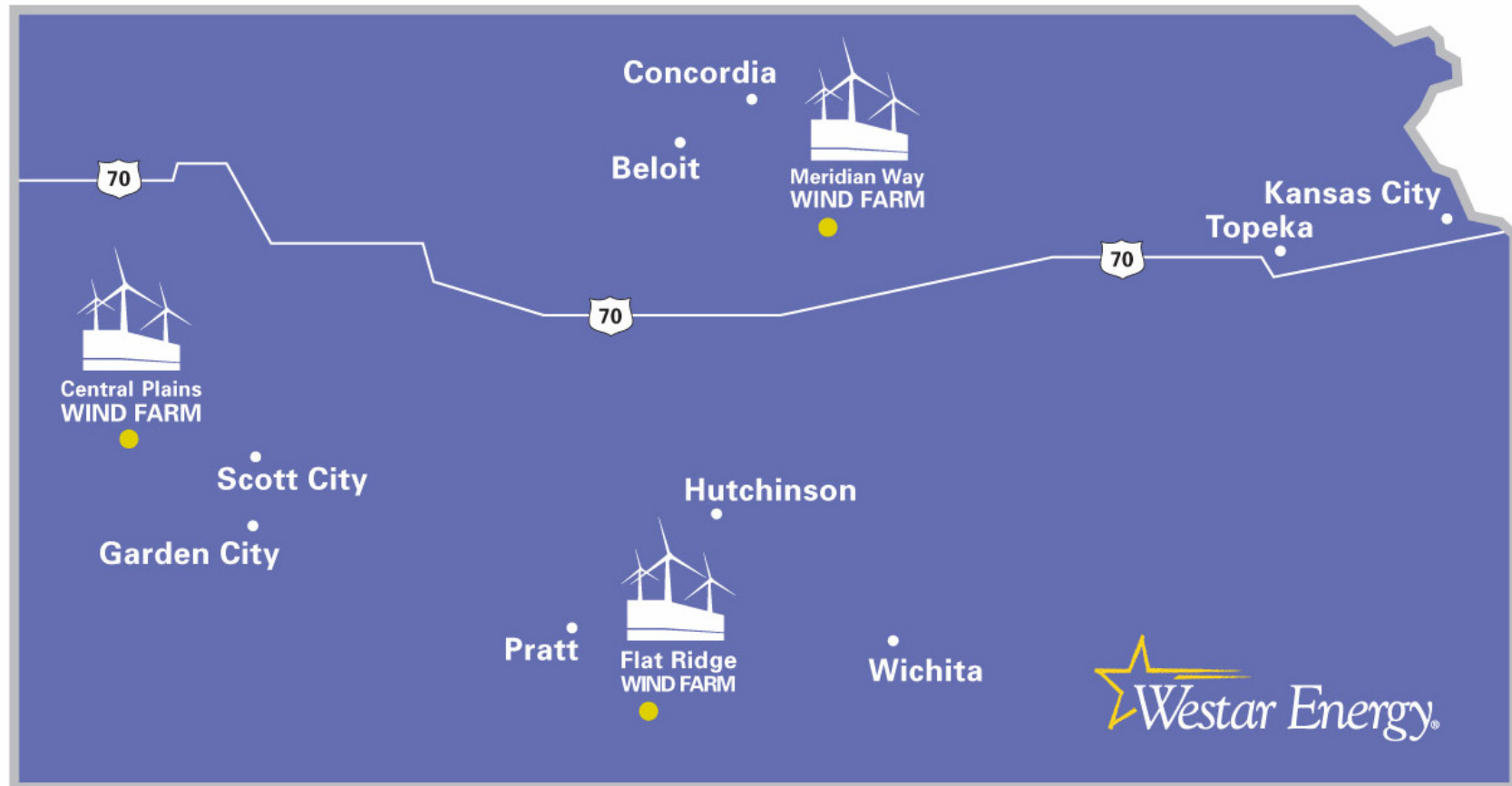
Central Plains

Mark Mayworm – Westar Energy





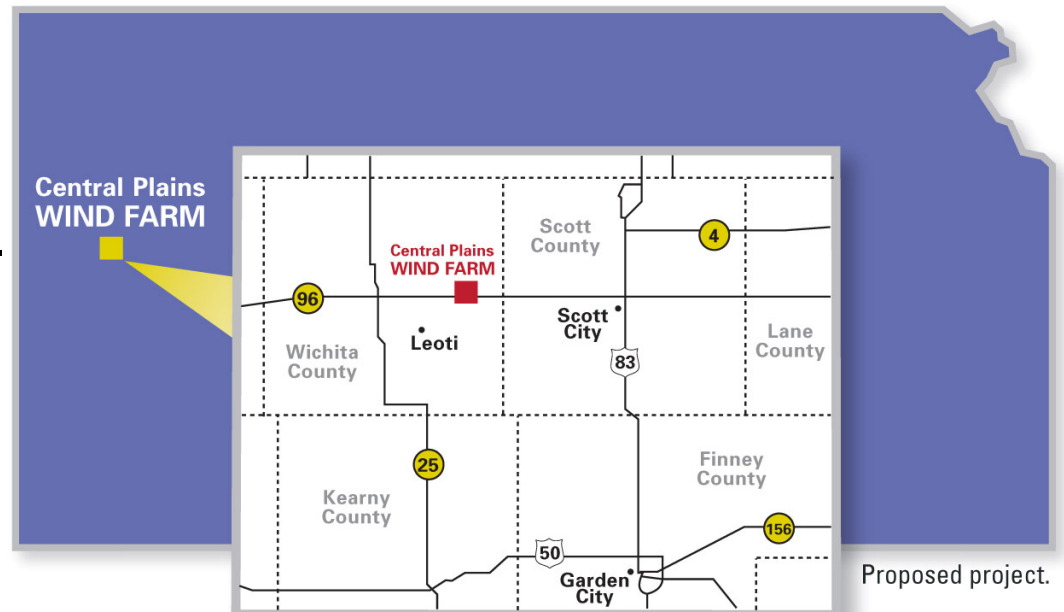
Wind Portfolio





Central Plains Wind Farm

- Location: 6,000 acres in Wichita County between Leoti & Scott City
- Structure: Westar Ownership of 99 MW
- Developer: RES America Development Inc.
- Annual Generation: Over 310,000 MWh's
- In Service: April 2009
- Turbine type: Vestas 3MW
- Turbine Hub Height: 262 ft.
- Rotor Diameter: 295 ft.



Community Impact



- 5 Vestas technicians - Local residents of Wichita and Scott County
- 1 Westar employee – Local resident
- All live within 12 miles of the site
- All techs receive extensive mechanical, electrical, and safety training for turbine work
- Three service vehicles are tagged in the county

Community Impact



- Employee community involvement include
 - ☞ Volunteer Fire Departments, Volunteer Deputy Sheriff, Volunteer work with both Wichita and Scott County Fair board, Local Schools, and Churches
- Local contractors
 - ☞ Mowing and spraying services - \$10,000 annually
 - ☞ Road maintenance - \$1300 to \$2200 per call out
- Local businesses are used for parts and supplies whenever possible

Operation and Maintenance

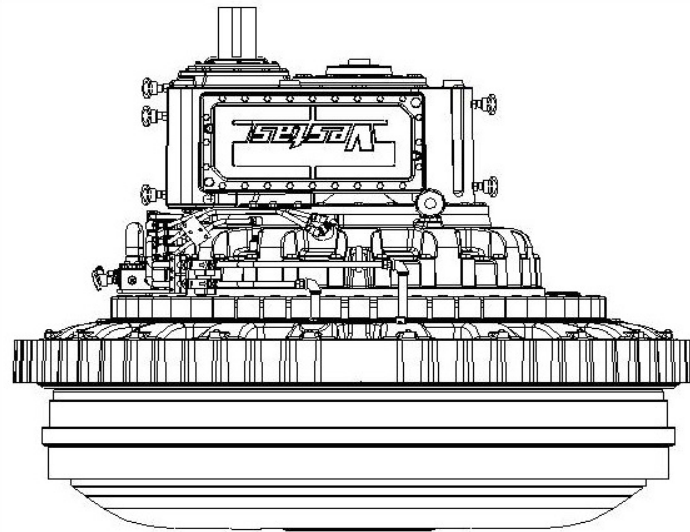


- Total annual O&M – Over \$4 million
 - ☞ Royalty payments – Over \$500K annually
 - ☞ Payment in lieu of taxes (PILOT) – Over \$250K annually

V90 Maintenance Issues



- Gearbox – Pin rotating shedding metal debris throughout the gearbox
- Central Plains became a Global Priority Site to complete the pin repair (little run time/no damage developed)
 - ☞ Increased resources
 - ☞ Expedited the repair





Renewable Energy Legislation

- Renewable Energy Standards Act of Kansas signed into law in May 2009
 - ☞ Requires increasing amount of net renewable generating capacity based upon utility's 3-year average peak demand
 - 10% by 2011; 15% by 2016; 20% by 2020
 - ☞ ~160 MW of additional renewables will be required for Westar to meet the Kansas Renewable Energy Standards Act of 10% of peak demand by 2011
- A proposed senate ENR bill would require 15% renewables by 2021, based on energy, requiring Westar to have a total of ~975 MW
- Future legislation (waxman-markey) may drive different requirements

2009 Renewable RFP



- Issued RFP for up to 500MW in March 2009
 - ☞ 35 responses
- Decision process continues to be challenging
 - ☞ State RES requires action by end of 2011
 - ☞ Transmission constraints are significant limiting factor
 - Major transmission relief not expected until 2013 or later
 - ☞ Ripple effects of world economic crisis have caused prices of project to increase versus our previous wind projects



Questions?
